

NOTES:

All concrete shall be Class "B" Concrete.

All concrete edges shall have a 3/4" x 45° chamfer. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground line.

When headwalls are placed on the inlet end of corrugated metal pipe or skewed concrete pipe, a bevel shall be used at the inlet opening. The end of the pipe shall be set in from the face of the wall, as shown on the "Bevel Detail", and the bevel constructed from the end of the pipe to the face of the wall.

When headwalls are placed on the inlet end of concrete pipe, the "bell" or "groove" of the pipe shall be placed in the wall in lieu of the bevel, except when the pipe is to be cut for placing in skewed headwalls. The inside of the "bell" or "groove" shall be filled with concrete up to the flow line.

Bevels are not required on outlet headwalls.

Reinforcing fabric shall conform to the requirements of 709.3 and 709.4 of the Specifications.

Reinforcing fabric, as detailed herein, shall be used in all walls of all headwall structures. The covering for the fabric shall be two inches, measured from the surface of the concrete to the face of the wire, unless otherwise specified. The fabric shall be cut as necessary to accommodate the pipe opening in the wall and may be otherwise cut or field bent to fit the structure.

In lieu of the reinforcing fabric described above, as shown reinforcing steel bars, meeting the requirements of 709.1 of the Specification, may be used in these structures. Covering for the reinforcing shall be two inches, measured from the surface of the concrete to the face of the bars, unless otherwise specified. Bars shall be furnished in such lengths, or field bent or cut as necessary, to fit the structures and to accommodate the pipe opening in the walls.

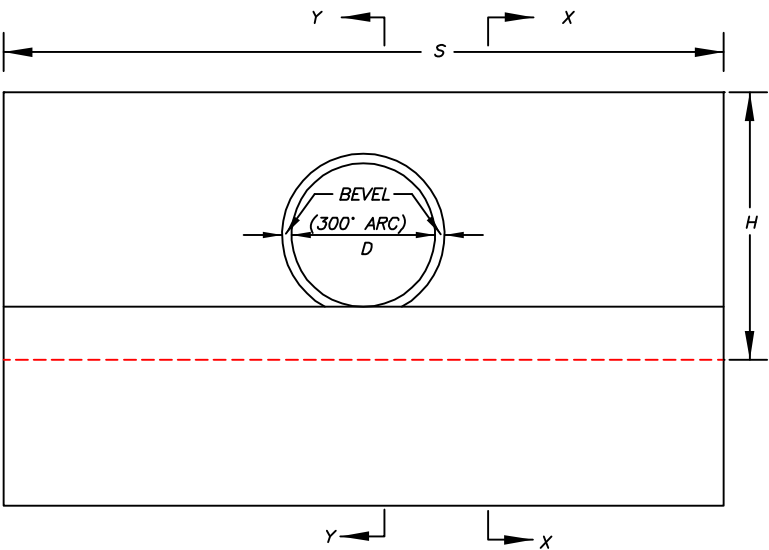
Keyed or doweled type construction joints, acceptable to the Engineer, may be used during construction.

The pay quantity for Straight Headwalls, constructed in accordance with the details herein, will be the cubic yards of Class B Concrete specified herein.

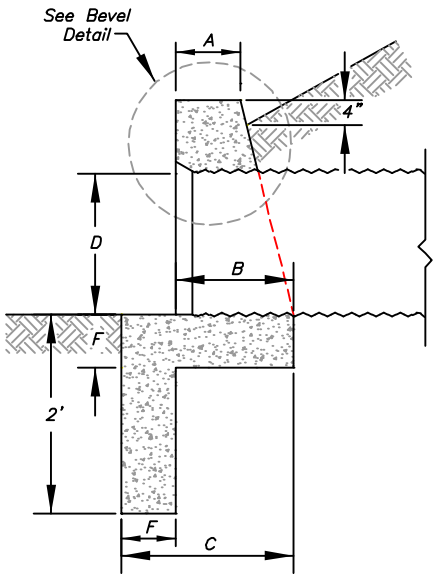
Cost of all reinforcing fabric and reinforcing bars shall be included in the unit price bid for "Class B Concrete".

DETAIL XX
CONCRETE HEADWALL

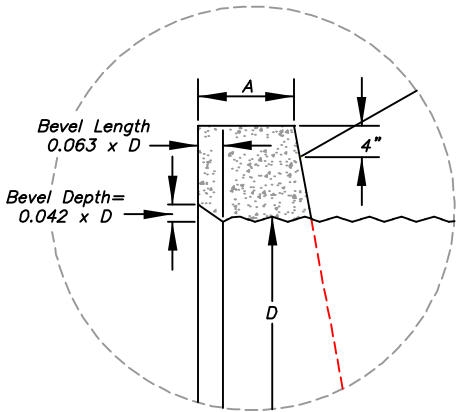
NO SCALE



ELEVATION VIEW
No Scale



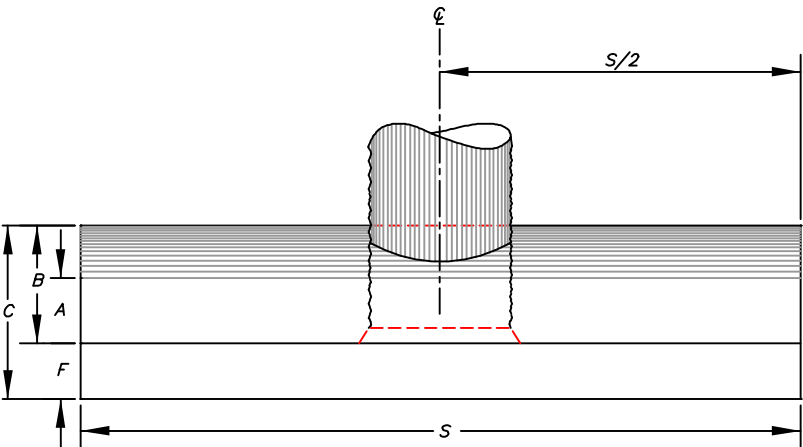
SECTION Y - Y



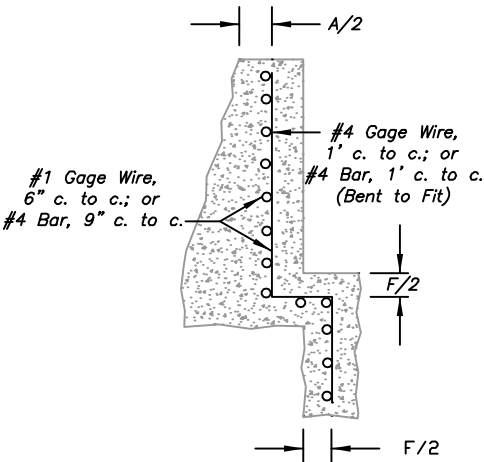
BEVEL DETAIL

(Section Thru Center Of Pipe)

BEVEL DIMENSIONS					
	DIAMETER OF PIPE				
	12"	15"	18"	24"	30"
Depth	1/2"	3/4"	3/4"	1"	1-1/4"
Length	3/4"	1"	1-1/4"	1-1/2"	2"



PLAN VIEW
No Scale



SECTION X - X

(Showing Reinforcing Details)

STRAIGHT HEADWALL

(Corrugated Metal Pipe Shown)

DIMENSIONS					
DIM.	DIAMETER OF PIPE				
	12"	15"	18"	24"	30"
A	0'-6"	0'-8"	0'-9"	0'-11"	1'-0"
B	0'-11"	1'-2"	1'-4"	1'-8"	1'-10"
C	1'-5"	1'-9"	2'-0"	2'-5"	2'-8"
D	1'-0"	1'-3"	1'-6"	2'-0"	2'-6"
F	0'-6"	0'-7"	0'-8"	0'-9"	0'-10"
H	2'-3"	2'-10"	3'-2"	3'-9"	4'-4"
S	5'-0"	6'-3"	7'-6"	10'-0"	12'-6"
QUANTITIES					
CU. YDS. CLASS B CONCRETE					
R.C.P.	0.46	0.82	1.22	2.20	3.35
C.M.P.	0.47	0.85	1.27	2.29	3.48